

Wee 1 Polyclonal Antibody

Catalog No :	YT4903
Reactivity :	Human,Mouse,Rat
Applications :	WB,ELISA
Gene Name :	WEE1
Protein Name :	Wee1-like protein kinase
Human Gene Id :	7465
Human Swiss Prot No :	P30291
Mouse Gene Id :	22390
Mouse Swiss Prot No :	P47810
Rat Gene Id :	308937
Rat Swiss Prot No :	Q63802
Immunogen :	The antiserum was produced against synthesized peptide derived from human WEE1. AA range:19-68
Specificity :	Wee 1 Polyclonal Antibody detects endogenous levels of Wee 1 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Rabbit
Dilution :	Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -20°C/1 year

Molecularweight : 71597

Observed Band : 72

Cell Pathway : Cell_Cycle_G1S,Cell_Cycle_G2M_DNA,

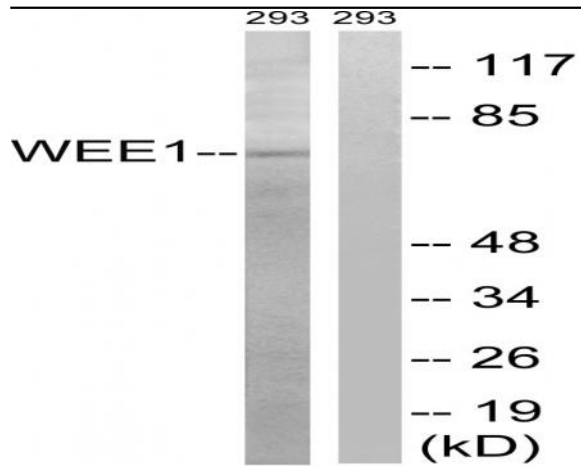
Background : WEE1 G2 checkpoint kinase(WEE1) Homo sapiens This gene encodes a nuclear protein, which is a tyrosine kinase belonging to the Ser/Thr family of protein kinases. This protein catalyzes the inhibitory tyrosine phosphorylation of CDC2/cyclin B kinase, and appears to coordinate the transition between DNA replication and mitosis by protecting the nucleus from cytoplasmically activated CDC2 kinase. [provided by RefSeq, Jul 2008],

Function : catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,cofactor:Binds 2 magnesium ions per subunit.,enzyme regulation:Synthesis is increased during S and G2 phases, presumably by an increase in transcription; activity is decreased by phosphorylation during m phase. Protein levels fall in M phase as a result of decreased synthesis combined with degradation. Activity seems to be negatively regulated by phosphorylation upon entry into mitosis, although N-terminal phosphorylation might also regulate the protein stability via protection from proteolysis or might regulate the subcellular location.,function:May act as a negative regulator of entry into mitosis (G2 to M transition) by protecting the nucleus from cytoplasmically activated cyclin B1-complexed CDC2 before the onset of mitosis. Its activity increases during S and G2 phases and decreases at M phase

Subcellular Location : nucleus,nucleoplasm,nucleolus,cytoplasm,

Expression : Amygdala,Blood,Epithelium,Human uterus endothel primary cell culture,Placenta,Skin,

Products Images



Western blot analysis of lysates from 293 cells, using WEE1 Antibody. The lane on the right is blocked with the synthesized peptide.